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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		0 5 50	TUDE 4/416		
·-	FOR FURTHER ACTION See Form PCT/IPEA/416				
BP110651/OPS International application No.	International filing date (day/m	nonth/year)	Priority date (day/month/year)		
PCT/FI2004/000707	22-11-2004		20-11-2003		
International Patent Classification (IPC) o		<u> </u>			
See Supplemental Box					
Bee Buppremenear 2011					
Applicant					
Stora Enso Oyj et al					
This report is the international pro-	eliminary examination report, es	stablished by this	International Preliminary Examining		
Authority under Article 35 and to	ransmitted to the applicant accor	ding to Atticle 3	o.		
2. This REPORT consists of a total		uding this cover	silect.		
3. This report is also accompanied b	by ANNEXES, comprising:				
a. (sent to the applican	t and to the International Burea	u) a total of 3	sheets, as follows:		
5 1 1 1 - 611-	description aloing and/or draw	ings which have	been amended and are the basis of this report		
and/or sheets	s containing rectifications author ive Instructions).	rized by this Aut	hority (see Rule 70.16 and Section 607 of the		
امناه مدد داد	amamada parlier cheete hut wh	hich this Authori	ty considers contain an amendment that goes		
beyond the d	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the				
Supplement					
b (sent to the Internat	ional Bureau only) a total of (inc	dicate type and n	umber of electronic carrier(s))		
, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the					
	Administrative Instructions).				
4. This report contains indications	relating to the following items:				
	of the report				
Box No. II Priori	ty				
Box No. III Non-	establishment of opinion with reg	gard to novelty, i	inventive step and industrial applicability		
1 1 1	of unity of invention				
Boy No. V. Peas	Box No. V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial				
applie	applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
		ate of completion	of this report		
Date of submission of the demand		are of countrienou	or min rapass		
		17 03 3006			
16-09-2005		17-03-2006 Authorized officer			
Name and mailing address of the IPEA/SE		unionized officer			
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International application No.

PCT/FI2004/000707

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

International patent classification (IPC)

B65D 5/38 (2006.01)

B65D 50/04 (2006.01)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000707

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Box	No. I	Bas	sis of the report			
1.	With	With regard to the language, this report is based on:				
	\boxtimes		mational application in the language in which it was filed			
		a transla which i	ation of the international application into s the language of a translation furnished for the purposes of:	· · · · · · · · · · · · · · · · · · ·		
			international search (Rules 12.3(a) and 23.1(b))			
		Ħ	publication of the international application (Rule 12.4(a))	1		
		Ħ	international preliminary examination (Rules 55.2(a) and/or 55.3(a))			
2.	furni.	shed to ti are not at	to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referred nexed to this report):	replacement sheets which have been I to in this report as "originally filed"		
		the int	ternational application as originally filed/furnished			
	\boxtimes	the de	scription:	- 11 11 Elad/Gymighad		
		pages	1-14	as originally filed/furnished		
		pages				
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		pages	as amended (togethe	r with any statement) under Article 19		
		pages	+ 15 17 received by this Authority on	20-02-2006		
		pages pages	and hospital on			
l	N7	 **	rawings:			
		7	- - 1_7	as originally filed/furnished		
		page	received by this Authority on			
		page	s* received by this Authority on			
		a seq	quence listing and/or any related table(s) - see Supplemental Box Relating to	Sequence Listing.		
3.		The	amendments have resulted in the cancellation of:			
1			the description, pages			
i		F	the claims, Nos.			
1		F	the drawings, sheets/figs			
		<u> </u>	the sequence listing (specify):			
1		늗	any table(s) related to the sequence listing (specify):			
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4	. [mad	s report has been established as if (some of) the amendments annexed to the le, since they have been considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed, as a second considered to go beyond the disclosure as filed.			
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			the claims, Nos.			
			the drawings, sheets/figs			
			the sequence listing (specify):			
1		Ī	any table(s) related to the sequence listing (specify):			
	‡ If∶	item 4 av	plies, some or all of those sheets may be marked "superseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000707

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

citations and explanations supporting such statement					
1.	Statement	t			
	Nove	ilty (N)	Claims Claims	1-15	YES NO
	Inver	ntive step (IS)	Claims Claims	1-15	YES NO
	Indu	strial applicability (IA)	Claims Claims	1-15	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: EP 1260454 A2 D2: WO 03066323 A1

D3: US 3654842 A

D4: US 4401210 A

D5: US 6491211 B1 D6: WO 0238454 A1

D7: WO 03101840 A1

The cited documents represent the general state of the art.

The invention defined in claims 1-15 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed carton package and the use thereof. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-15 is novel and is considered to involve an inventive step. The invention is industrially applicable.

The Swedish Patent Office

Claims

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- 1. A child resistant carton package, the package comprising an outer sleeve (2) of fiber-based material, an insert (3) that can be slidingly drawn out of the sleeve, the insert carrying the packaged product, and a locking mechanism (7, 9) between the sleeve and the insert, for preventing a child from drawing the insert out of the sleeve, characterized in that the outer sleeve (2) is made of board reinforced on both sides thereof with an extrusion coated layer of tough polymer to increase its resistance to tearing.
- A carton package according to claim 1, characterized in that the board has a coating layer of a tough polymer selected from the group consisting of polyester, polyamide, polypropene and polycarbonate.
- 15 3. A carton package according to claim 2, characterized in that the coating polymer is polyethylene terephtalate (PET).
- A carton package according to any one of the preceding claims, characterized in that the coating comprises an inner reinforcement layer of a tough polymer and
 an outer heat seal polymer layer.
 - 5. A carton package according to any one of the preceding claims, characterized in that the insert (3) is made of the same polymer extrusion coated board as the outer sleeve (2).
 - 6. A carton package according to any one of the preceding claims, characterized in that the cutting edges at least on the outside of the outer sleeve (2) are provided with polymer shield against delamination of the board.
- 7. A carton package according to any one of the preceding claims, characterized in that the board is delaminable along a fiber-based material layer in case of failure of a cutting edge.
- 8. A carton package according to any one of the preceding claims, characterized in that the sleeve (2) comprises four longitudinal side walls (2a, 2b, 2c, 2d) parallel to the sliding direction (S) of the insert (3) and an open end (4) to let the insert be drawn out of the sleeve, and that the locking mechanism comprises a first stop tab (7a) in the sleeve, the first stop tab extending from a first (2c) to a second (2a) of

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the longitudinal walls and being at least partly separated from the first longitudinal wall and the second longitudinal wall, and a first locking edge (9a) provided in the insert, the insert being prevented, upon contact of the first locking edge with the first stop tab, from moving out of the sleeve, while the first locking edge can, through elastic deforming of a part of the insert by a user, be moved so that its movement past the first stop tab is made possible.

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- 9. A carton package according to any one of the preceding claims, characterized in that the outer sleeve (2) has one or more holes (10) permitting release of the locking (7, 9) by the user's finger.
- 10. A carton package according to any one of the preceding claims, characterized in that the outer sleeve (2) has been made by folding a blank (2') of the polymer extrusion coated board and seaming overlapping parts (17, 18) of the folded blank together by heat sealing the coating polymer of the board, the seams on the outside of the sleeve having the edge of the outer board part (17) protected by polymeric shielding against delamination of the coated board.
- 11. A carton package according to claim 10, characterized in that an edge portion (15) of the outer board part (17) is skived from its inside and turned twofold, the polymer coating (13, 14) of the folded portion forming the delamination shield and at least part of the heat seal (19) between the overlapping inner and outer board parts (17, 18) at the seam.
- 25 12. Use of polymer extrusion coated board (11) which is coated on both sides with a tough polymer, for a child resistant carton package for a pharmaceutical or like dangerous product, the package comprising an outer sleeve (2), a slidable insert (3) and a locking mechanism (7, 9) between the outer sleeve and the insert.
- 30 13. Use of polyethylene terephtalate (PET) coated board (11) in accordance with claim 12.
- 14. Use of polymer extrusion coated board having an inner layer of a tough polymer selected from the group consisting of polyester, polyamide, polypropene and polycarbonate and an outer heat seal layer of polyolefine, for a child resistant carton package in accordance with claim 12.

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15. Use of polymer extrusion coated board (11) in accordance with any one of claims 12 - 14 for the outer sleeve (2), the slidable insert (3) and the locking mechanism parts (7, 9) of the carton package.